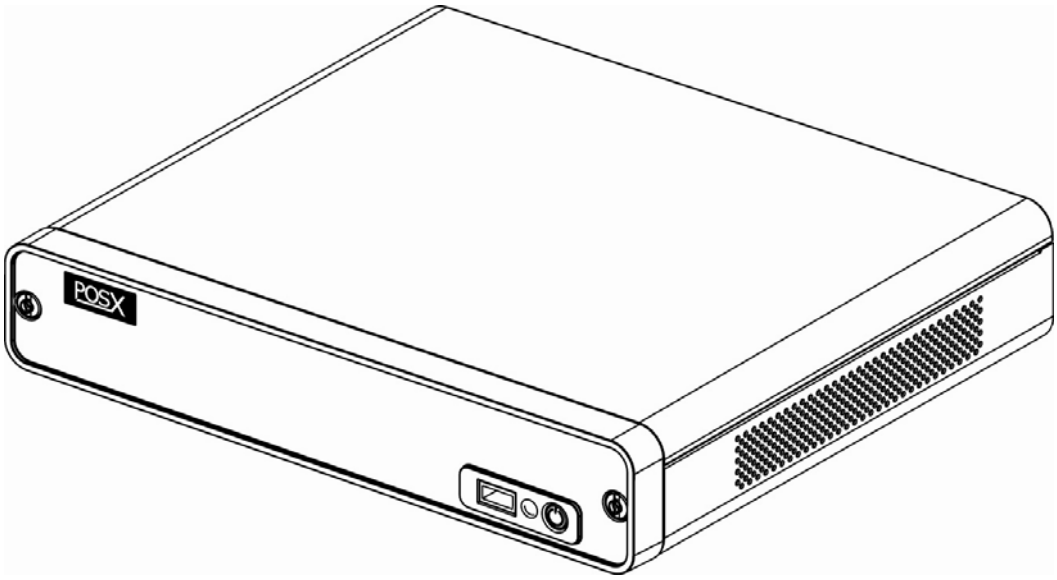
User Manual

Version 1.2 May 2013

EVO-PC4
Retail Box



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Manual Version 1.2
EVO-PC4

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Safety

IMPORTANT SAFETY INSTRUCTIONS

1. To disconnect the machine from the electrical Power Supply, turn off the power switch and remove the power cord plug from the wall socket. The wall socket must be easily accessible and in close proximity to the machine.
2. Read these instructions carefully. Save these instructions for future reference.
3. Follow all warnings and instructions marked on the product.
4. Do not use this product near water.
5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
6. Slots and openings in the cabinet and the back or bottom are provided for ventilation; to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
7. This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
8. Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
9. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

CE MARK

This device complies with the requirements of the EEC directive 2004/108/EC with regard to “Electromagnetic compatibility” and 2006/95/EC “Low Voltage Directive”

FCC

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation

CAUTION ON LITHIUM BATTERIES

There is a danger of explosion if the battery is replaced incorrect. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

Battery Caution

Risk of explosion if battery is replaced by an incorrectly type.
Dispose of used battery according to the local disposal instructions.

Safety Caution

Note: To comply with IEC60950-1 Clause 2.5 (limited power sources, L.P.S) related legislation, peripherals shall be 4.7.3.2 "Materials for fire enclosure" compliant.

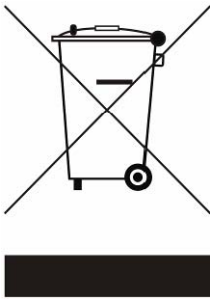
4.7.3.2 Materials for fire enclosures

For MOVABLE EQUIPMENT having a total mass not exceeding 18kg.the material of a FIRE ENCLOSURE, in the thinnest significant wall thickness used, shall be of V-1 CLASS MATERIAL or shall pass the test of Clause A.2.

For MOVABLE EQUIPMENT having a total mass exceeding 18kg and for all STATIONARY EQUIPMENT, the material of a FIRE ENCLOSURE, in the thinnest significant wall thickness used, shall be of 5VB CLASS MATERIAL or shall pass the test of Clause A.1

LEGISLATION AND WEEE SYMBOL

2012/19/EU Waste Electrical and Electronic Equipment Directive on the treatment, collection, recycling and disposal of electric and electronic devices and their components.



The crossed dustbin symbol on the device means that it should not be disposed of with other household wastes at the end of its working life. Instead, the device should be taken to the waste collection centers for activation of the treatment, collection, recycling and disposal procedure.
To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract.

This product should not be mixed with other commercial wastes for disposal.

Revision History

Revision	Date	Description
V 1.0	November, 2011	● Release
V 1.1	April, 2012	● EVO-PC4-Pro added
V 1.2	Mary, 2013	● EVO-PC4-B removed ● EVO-PC4-D2XN added

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Appendix 24

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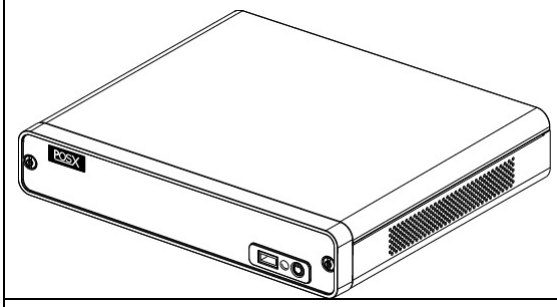
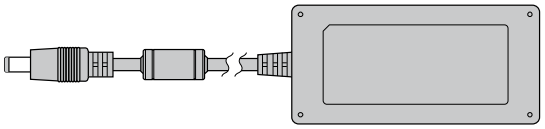
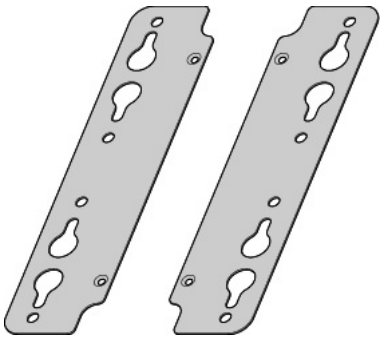
1 Item Checklist

Take the unit out of the carton. Remove the unit from the carton by holding it by the foam inserts. The following contents should be found in the carton:

1-1 Standard Items

	. 
a. System	b. Power adapter
c. COM cable (x3)	d. Driver CD

1-2 Optional Items

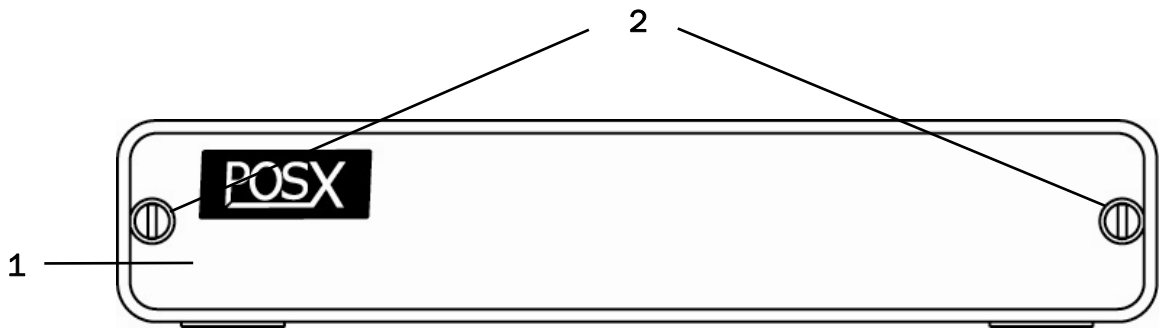


a. Wall Mount Kits (x2)

2 System View

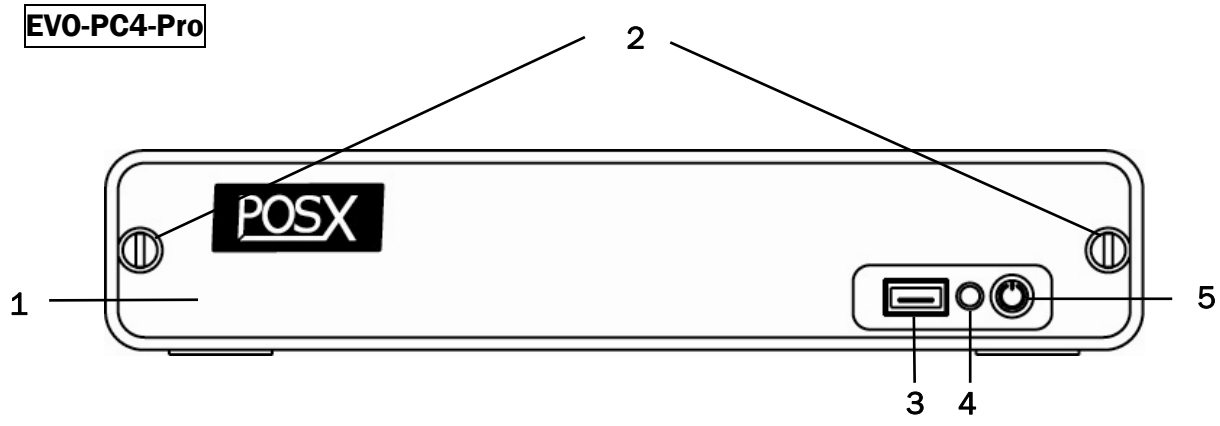
2-1 Front View

EVO-PC4-D2XN



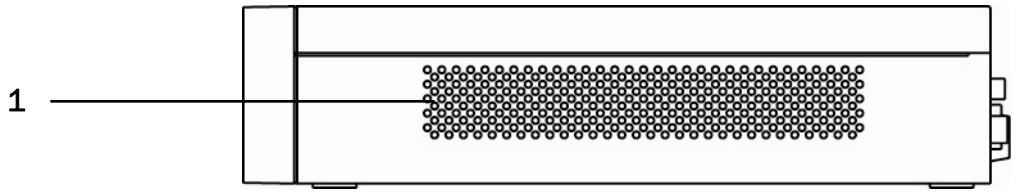
Number	Description
1	Front cover
2	Slotted screw

EVO-PC4-Pro



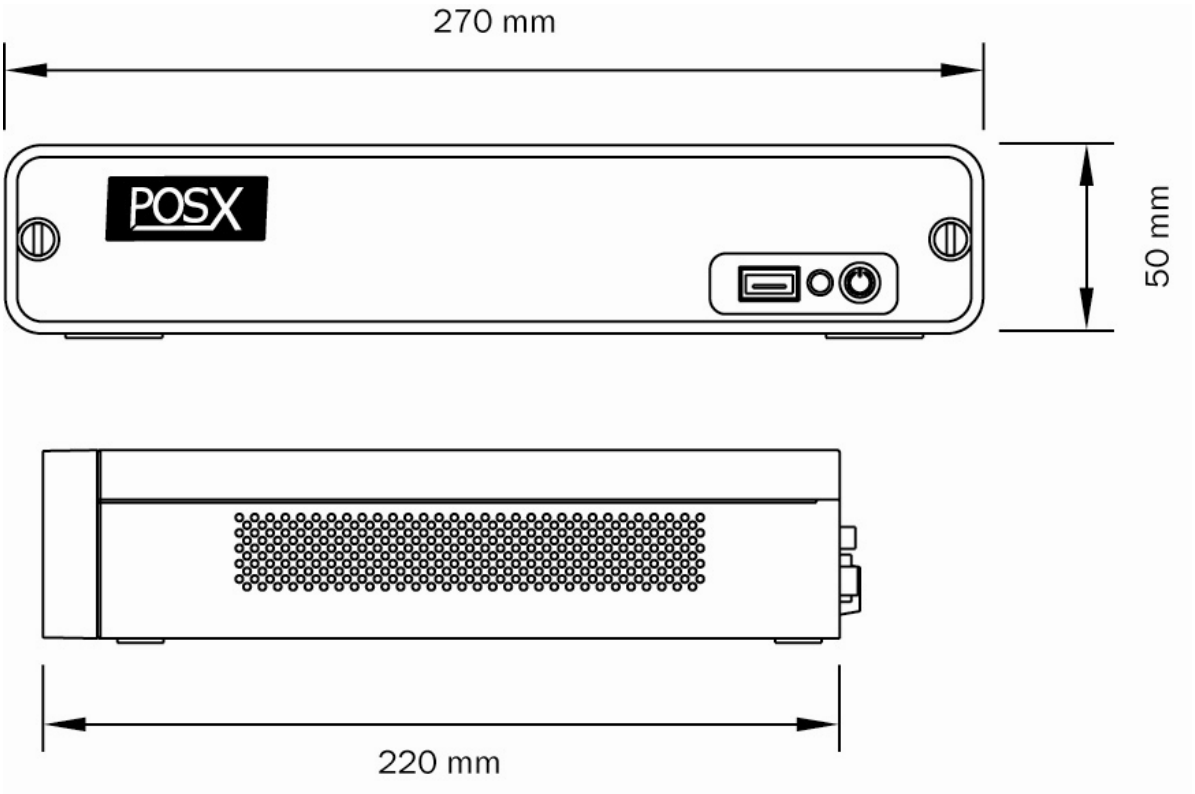
Number	Description
1	Front cover
2	Slotted screw
3	USB
4	Indicator LED (Green)
5	Power button

2-2 Side View



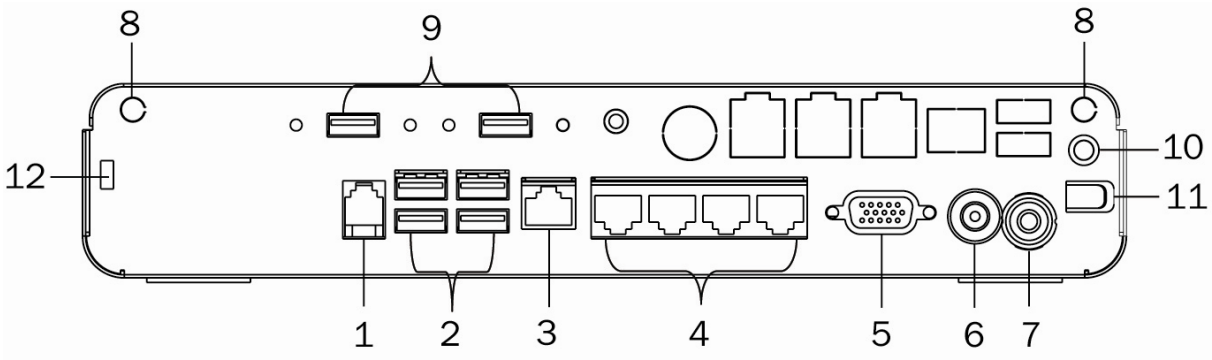
Number	Description
1	Ventilation hole

2-3 Dimension



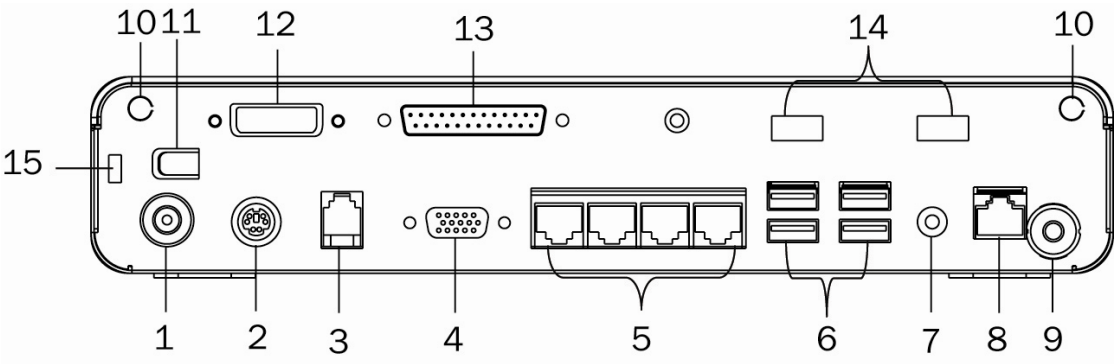
2-4 Rear I/O View

EVO-PC4-D2XN



Number	Description
1	Cash drawer port
2	USB x4
3	LAN
4	COM1~4 (from left to right)
5	VGA
6	DC IN 19V
7	Power button
8	Antenna hole
9	USB x2
10	Indicator LED (Green)
11	Cable clamp
12	Kensington lock

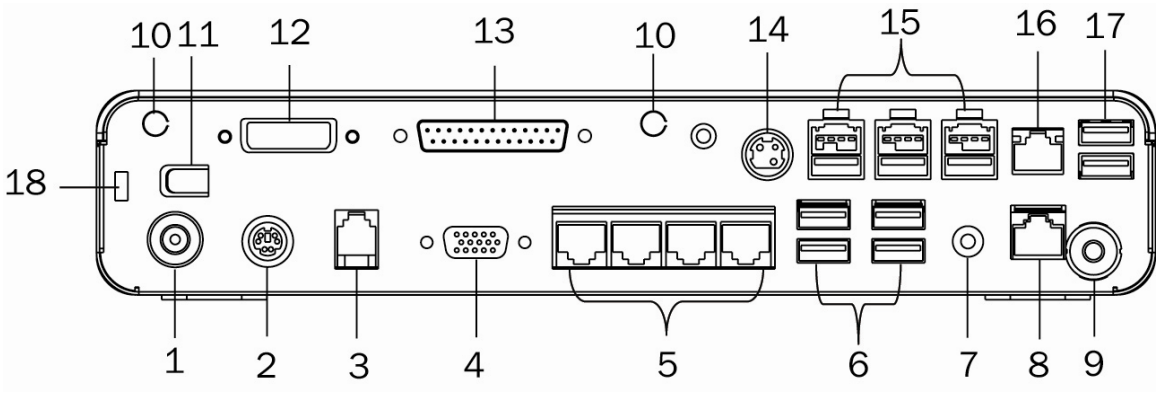
EVO-PC4-Pro



Number	Description
1	DC IN 19V
2	PS/2
3	Cash drawer port
4	VGA
5	COM1~4 (from left to right)
6	USB x4
7	Line-out
8	LAN
9	Power button
10	Antenna hole
11	Cable clamp
12	DVI-D
13	Parallel
14	USB x2
15	Kensington lock

Note: The maximum current that can be drawn from each COM port is 500 mA.

EVO-PC4U-Pro (with power USB)

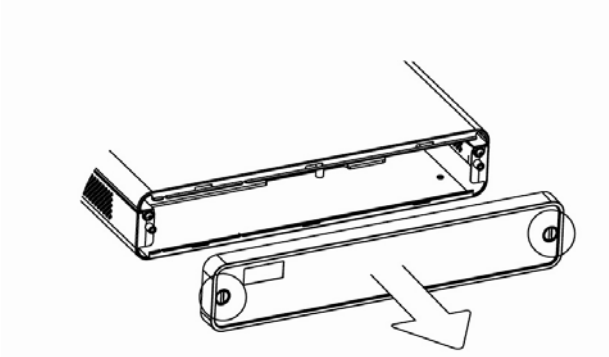


Number	Description
1	DC IN 19V
2	PS/2
3	Cash drawer port
4	VGA
5	COM1~4 (from left to right)
6	USB x4
7	Line-out
8	LAN
9	Power button
10	Antenna hole
11	Cable clamp
12	DVI-D
13	Parallel
14	DC OUT 24V
15	Power USB x3
16	LAN
17	USB x2
18	Kensington lock

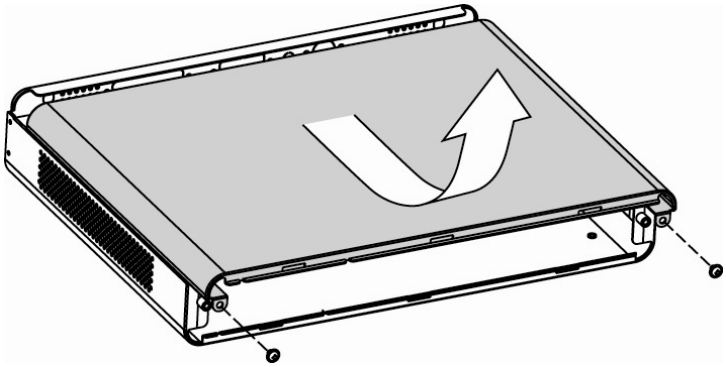
Note: The maximum current that can be drawn from each COM port is 500 mA.

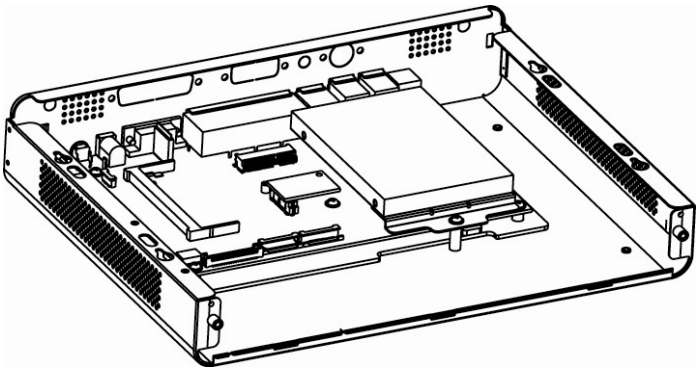
3 System Assembly & Disassembly

3-1 Remove the Top Cover



1. Remove the screws (x2) to release the front cover.



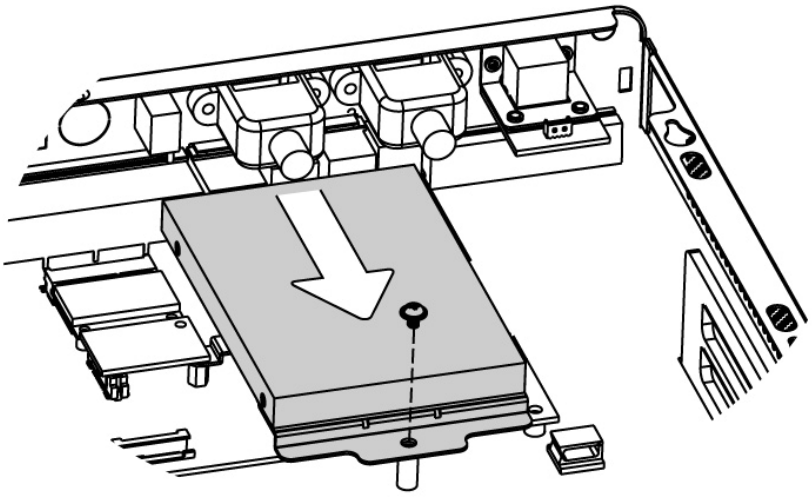


2. Remove the screws (x2).
3. Slide the top cover outwards.

3-2 Replace the HD

EVO-PC4-D2XN

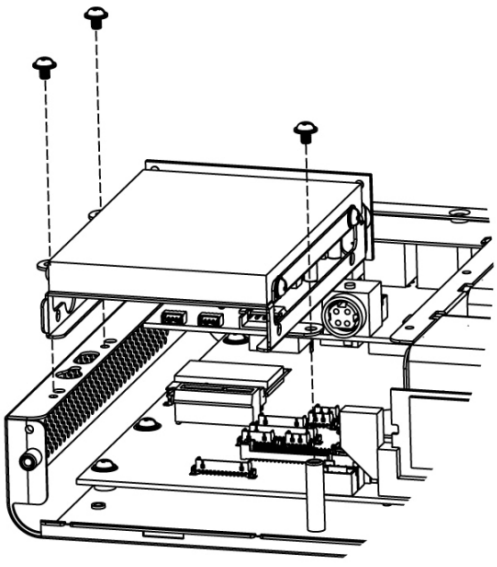
To replace the HD, please remove the top cover as described in Chapter 3-1



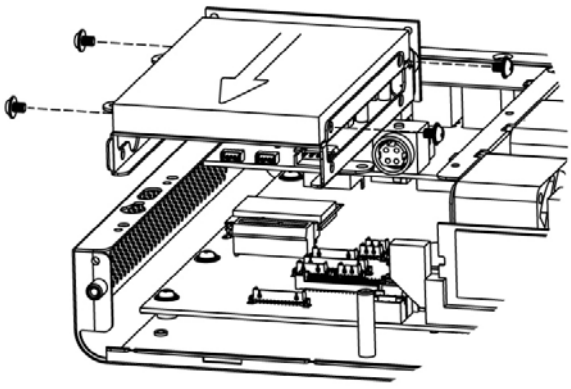
1. Remove the screw (x1).
2. Pull the HD away from the system.

EVO-PC4-Pro

To replace the HD, please remove the top cover as described in Chapter 3-1



1. Remove the screws (x3) to separate the HD module from the system.

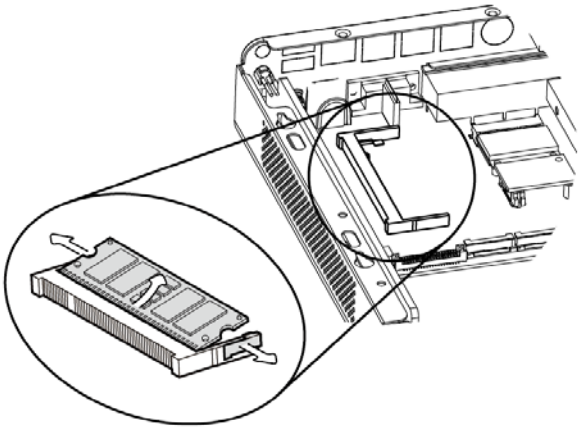


2. Remove the screws (4) and replace the HD.

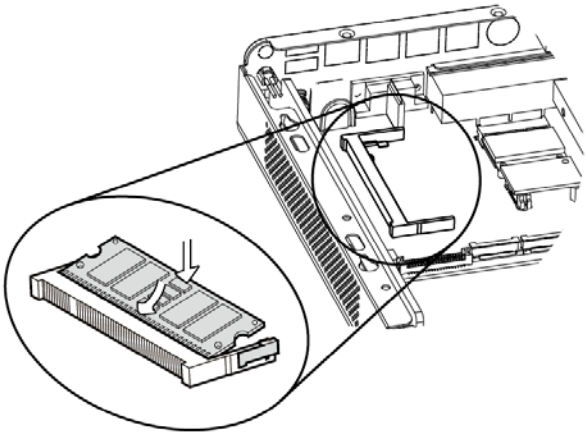
3-3 Remove the RAM Module

EVO-PC4-D2XN

To replace the RAM, please remove the top cover as described in Chapter 3-1



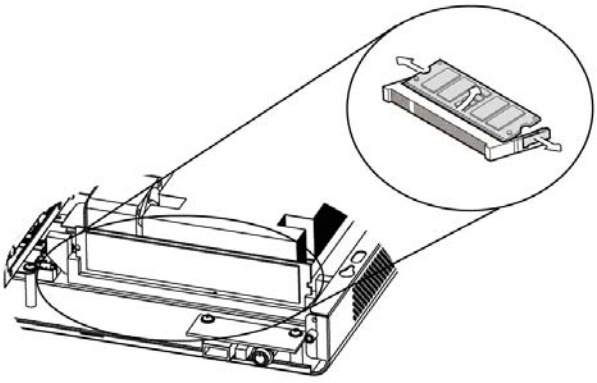
1. Flip the ejector clips outwards to remove the memory module from the memory slot.



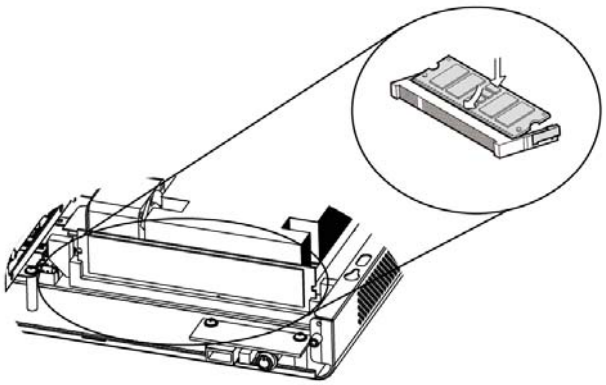
2. To install a RAM module, slide the memory module into the memory slot and press down until the ejector clips snap in to place.

EVO-PC4-Pro

To replace the RAM, please remove the top cover as described in Chapter 3-1



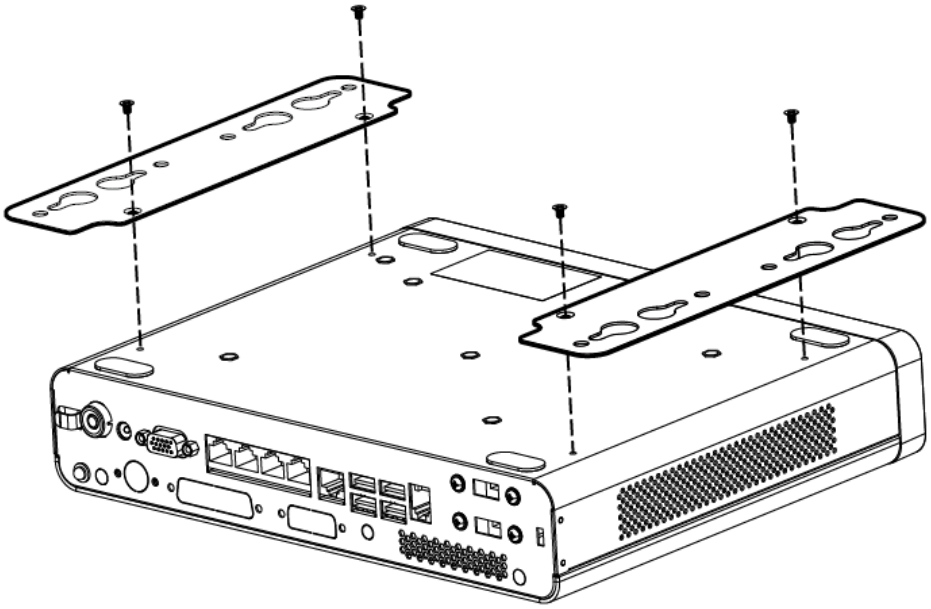
1. Flip the ejector clips outwards to remove the memory module from the memory slot.



2. To install a RAM module, slide the memory module into the memory slot and press down until the ejector clips snap in to place.

4 Peripheral Installation

4-1 Wall Mounting Kits Installation



1. Turn over the system and fasten the screws (x4) as shown in the picture.

5 Specification

EVO-PC4-D2XN

Model Name	**EVO-PC4-D2XN**
Motherboard	**C56**
CPU	Intel CedarView D2550 processor 1.86GHz 1MB Cache, 32nm, 4 threads, 10W
Chipset	Intel® NM10
System Memory	DDR3, SO-DIMM x1, 2 or 4 GB, 1067MHz
Graphic Memory	DX9, Graphic core speed at 640MHz
Storage	
HDD	1 x slim HDD holder support SATA HDD
Flash Memory	SSD (without HDD, option)
External I/O Ports	
USB 2.0	6
Serial / COM	4 x RJ-45 COM connectors (COM1 & COM2 standard RS-232 W/O power; COM3/COM4 power enable/disable by BIOS, default BIOS setting w/o power; jumper setting COM3 at +5V & COM4 at +12V)
Line Out	1
Parallel	1
GigaLAN (10/100/1000)	1
DC Jack	1
VGA	1
DVI-D	N/A
Cash Drawer	RJ-11 x 1 (12V/24V)
PS/2	1
Kensington Lock	1
Power	
Power	External 19V/65W
Control / Indicator	
Power Button	1
Indicator LED (Green)	1
Expansion	
Power USB Module	N/A

Model Name	**EVO-PC4-D2XN**
Motherboard	**C56**
Wireless LAN	half-size miniCARD type (PCI-E), 802.11 b/g/n wireless LAN card & antenna
Wall Mount Kit	1
Environment	
EMC & Safety	FCC Class A, CE, LVD
Operating Temperature	0°C~ 35°C (32°F ~ 95°F)
Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
Humidity	20% ~ 85% RH non condensing
Dimension (W x D x H)	270 X 220 x 50mm
Weight (N.W./G.W.)	1.9Kg / 2.9kg
OS Support	Windows® XP Professional, POSReady 2009, Windows XP Embedded, Windows XP Professional for Embedded, Windows 7, Linux, POSReady7

EVO-PC4-Pro

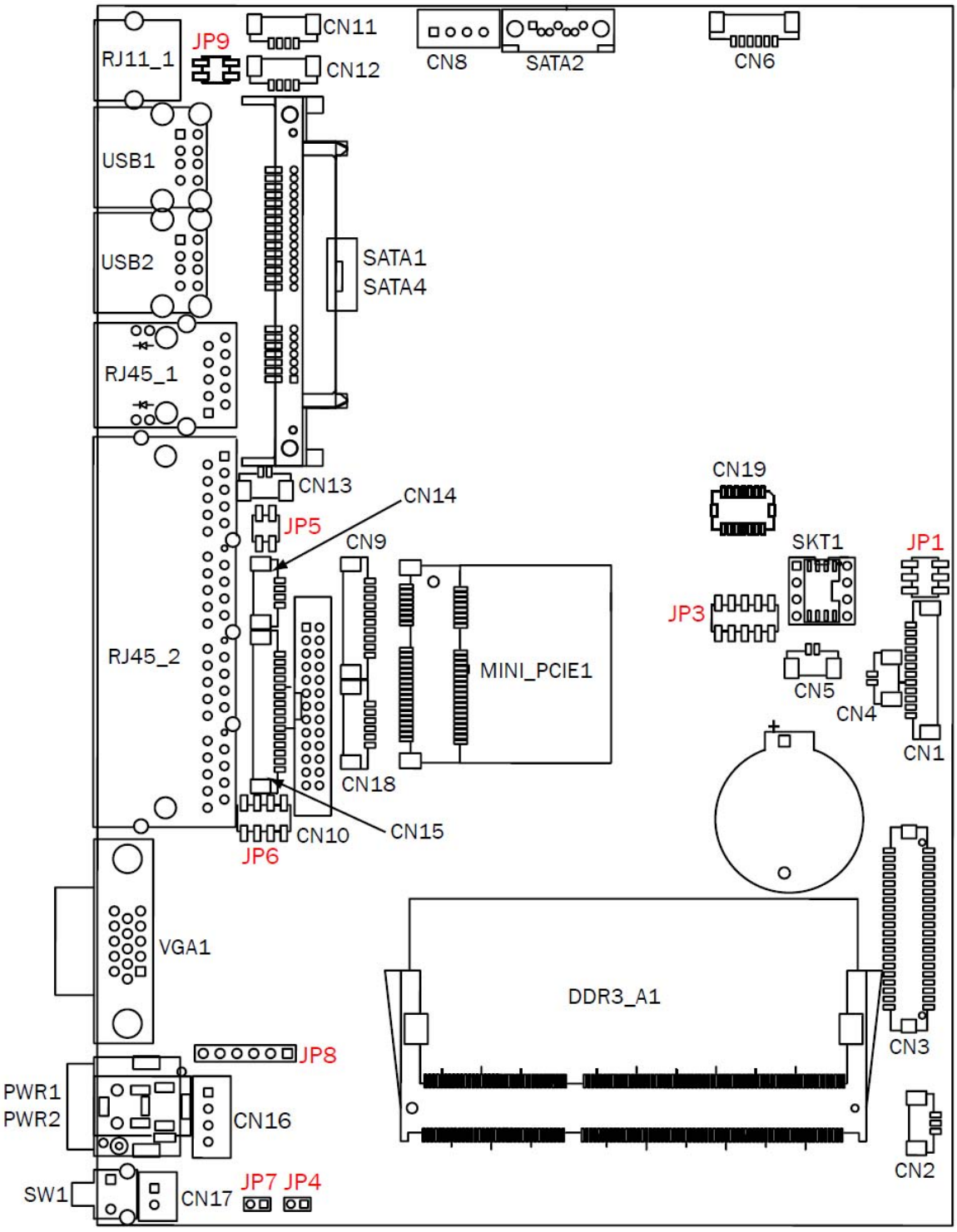
Model Name	**EVO-PC4-Pro**	
Motherboard	**C65M**	**C65H**
CPU	Intel Sandy Bridge CPU, LGA 1155-pin, 32nm Pentium G620T 2.2G, L2 3M, 35W	Intel Sandy Bridge CPU, LGA 1155-pin, 32nm i5-2390T 2.7G, L2 6M, TDP 35W, i3-2120 3.3G, L2 3M, TDP 65W, Pentium G850 2.9G, L2 3M, 65W G620 2.6G, L2 3M, 65W
Chipset	Intel® PCH Cougar Point H61 (SATA Generation 2.0/ No RAID)	Intel® PCH Cougar Point Q67 (SATA Generation 3.0/ RAID 0/1)
System Memory	DDR3, Long-DIMM x1, 2 or 4 GB, 1066/1333MHz	
Graphic Memory	Intel HD Graphics, Integrated in CPU, frequency 850MHz (dynamic frequency up to 1.1G)	
Storage		
HDD	1 x slim HDD holder support SATA HDD	2 x slim HDD holder support SATA HDD
Flash Memory	SSD (without HDD, option)	
External I/O Ports		
USB 2.0	7	
Serial / COM	4 x RJ-45 COM connectors (COM1 & COM2 standard RS-232 W/O power; COM3/COM4 power enable/disable by BIOS, default BIOS setting w/o power; jumper setting COM3 at +5V & COM4 at +12V)	
Line Out	1	
Parallel	1 (option)	1
GigaLAN (10 /100/1000)	1	
DC Jack	1	
VGA	1	
DVI-D	1 (option)	1
Cash Drawer	RJ-11 x 1 (12V/24V)	
PS/2	1	
Kensington Lock	1	
Power		
Power	External 19V/120W	
Control / Indicator		
Power Button	1	
Indicator LED (Green)	1	

Model Name	**EVO-PC4-Pro**	
Motherboard	**C65M**	**C65H**
Expansion		
Power USB module	N/A	5 USB ports (24Vx1 / 12Vx2 /normal 5Vx2) & 24V DC jack out / 2nd LAN connector
Wireless LAN	half-size miniCARD type (PCI-E), 802.11 b/g/n wireless LAN card & antenna	half-size miniCARD type (PCI-E), 802.11 b/g/n wireless LAN card & antenna (Choose either wireless or 2nd LAN)
Wall Mount Kit	1	
Environment		
EMC & Safety	FCC Class A, CE, LVD	
Operating Temperature	0°C~ 35°C (32°F ~ 95°F)	
Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)	
Humidity	20% ~ 85% RH non condensing	
Dimension (W x D x H)	270 X 220 x 50mm	
Weight (N.W./G.W.)	2.6Kg / 3.6Kg	
OS Support	Windows® XP Professional, POSReady 2009, Windows XP Embedded, Windows XP Professional for Embedded, Windows 7, Linux, POSReady7	

6 Jumper Settings

6-1 C56 Motherboard

6-1-1 Motherboard Layout



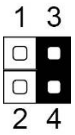
Version: C56 V1.0

6-1-2 Connectors & Functions

Connector	Function
CN4	Power LED CONN
CN6	Speaker & MIC CONN
CN8	HDD Power CONN
CN10	Printer Port CONN
CN11/12	USB CONN
CN14	PS2 Keyboard CONN
CN17	Power Button CONN
CN18	TO Front I/O Board
PWR1/2	DC-JACK
RJ11_1	Cash Drawer Port
RJ45_1	LAN Port
RJ45_2	COM1~4 Port
DDR3_A1	DDR3 SO-DIMM
SATA1	SATA CONN
SATA2	7+15 Pin SATA CONN
USB1	USB Port
USB2	USB Port
VGA1	VGA Port
SW1	Power Button
JP5	COM2 Power Setting
JP6	COM3/COM4 Power Setting
JP9	CASH DRAWER Power Setting

6-1-3 Jumper Setting

Cash Drawer Power Setting

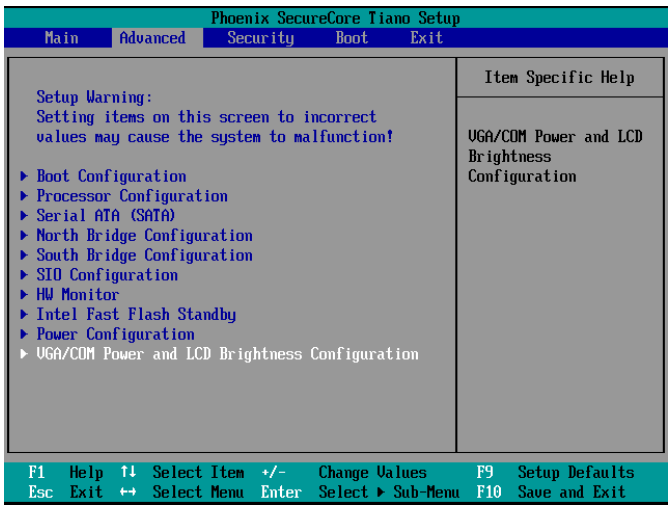
Function	**JP9** (1-2) (3-4)
▲19V	
12V	

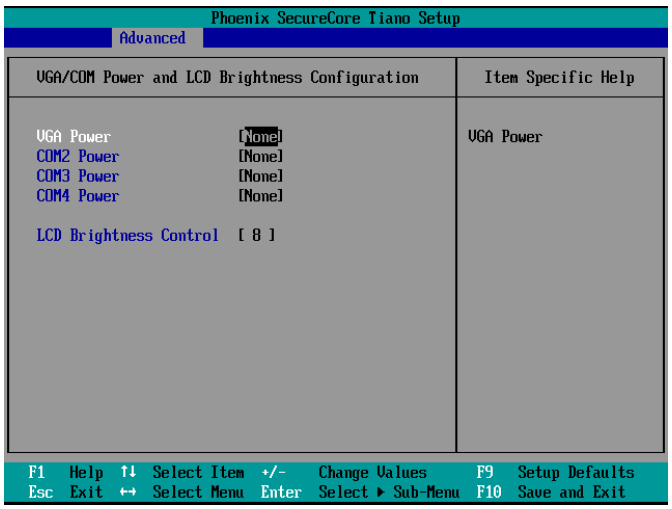
COM2/COM3/COM4 Power Setting

COM2, COM3 and COM4 can be set to provide power to your serial device.
The voltage can be set to +5V or +12V by setting jumper JP9 on the motherboard.
When enabled, the power is available on pin 10 of the RJ45 serial connector.
If you use the serial RJ45 to DB9 adapter cable, the power is on pin 9 of the DB9 connector. By default, the power option is **disabled** in the BIOS.

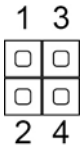
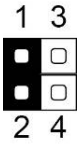
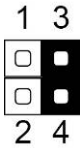
Enable COM2/ COM3/COM4 power in BIOS

1. Power on the system, and press the <DEL> key when the system is booting up to enter the BIOS Setup utility.
2. Select the Advanced tab.
3. Select **VGA/COM Power and LCD Brightness Configuration** Ports and press <Enter> to go to display the available options.
4. To enable the power, select COM2 , COM3 or COM4 Power setting and press <Enter>. Select Power and press <Enter>. Save the change by pressing F10.

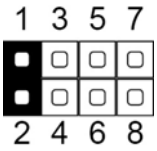
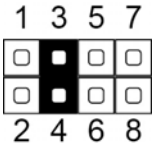
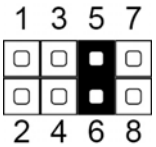
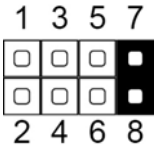

Phoenix SecureCore Tiano Setup
Main Advanced Security Boot Exit
Item Specific Help
Setup Warning:
Setting items on this screen to incorrect values may cause the system to malfunction!
VGA/COM Power and LCD Brightness Configuration
Boot Configuration
Processor Configuration
Serial ATA (SATA)
North Bridge Configuration
South Bridge Configuration
SIO Configuration
HW Monitor
Intel Fast Flash Standby
Power Configuration
VGA/COM Power and LCD Brightness Configuration
F1 Help ↑↓ Select Item +/- Change Values F9 Setup Defaults
Esc Exit ↔ Select Menu Enter Select ▸ Sub-Menu F10 Save and Exit


Phoenix SecureCore Tiano Setup
Advanced
VGA/COM Power and LCD Brightness Configuration
Item Specific Help
VGA Power [None]
COM2 Power [None]
COM3 Power [None]
COM4 Power [None]
LCD Brightness Control [8]
VGA Power
F1 Help ↑↓ Select Item +/- Change Values F9 Setup Defaults
Esc Exit ↔ Select Menu Enter Select ▸ Sub-Menu F10 Save and Exit

COM2 Power Setting

Function	**JP5** (1-2) (3-4)
▲No Power	
COM2 +5V	
COM2 +12V	

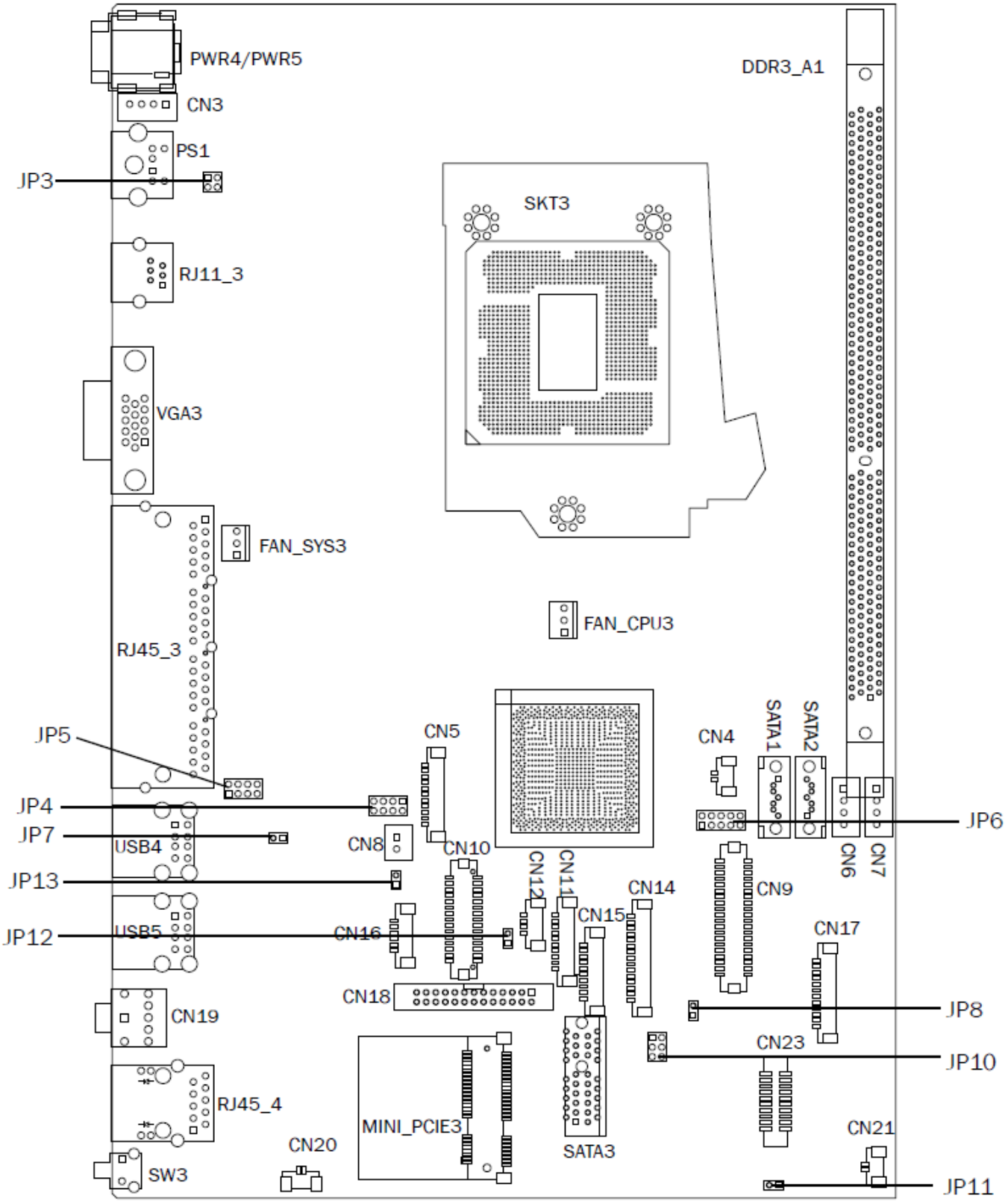
COM 3 & COM4 Power Setting

Function	**JP6** (1-2) (3-4) (5-6) (7-8)
▲COM3 +5V	
COM3 +12V	
COM4+ 5V	
▲COM4 +12V	

▲ = Manufacturer Default Setting OPEN SHORT

6-2 C65 Motherboard

6-2-1 Motherboard Layout



Version: C65 V1.0

6-2-2 Connectors & Functions

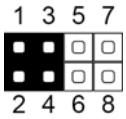
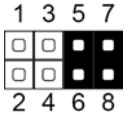
Connector	Function
CN6/CN7	HDD Power CONN
CN8	Power Button
CN10	DVI CONN
CN11	To Front I/O Board
CN12	USB CONN
CN18	Printer CONN
CN19	Line Out
CN20	Battery CONN
DDR3_A1	DDR3 DIMM1
FAN_CPU3	FAN CONN
FAN_SYS3	FAN CONN
PS1	PS2 Port
PWR3/4/5	DC-JACK
RJ11_3	Cash Drawer Port
RJ45_3	COM1~4 Port
RJ45_4	LAN Port
SATA1/2	SATA CONN
SATA3	To SATA Docking Board
SW3	Power Button
USB4/5	USB Port
VGA3	VGA Port
JP3	Cash Drawer Power Setting
JP4	System Indicator
JP5	COM3/COM4 Power Setting
JP12	ME Update

6-2-3 Jumper Settings

Cash Drawer Power Setting

Function	**JP3** (1-2) (3-4)
▲19V/24V	
12V	

System Indicator

Function	**JP4** (1-2) (3-4) (5-6) (7-8)
▲Disable	
Enable	

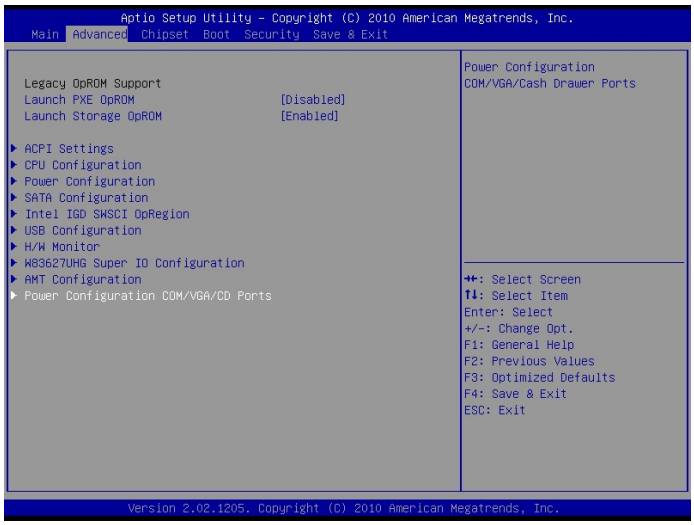
▲ = Manufacturer Default Setting OPEN SHORT

COM3 & COM4 Power Setting

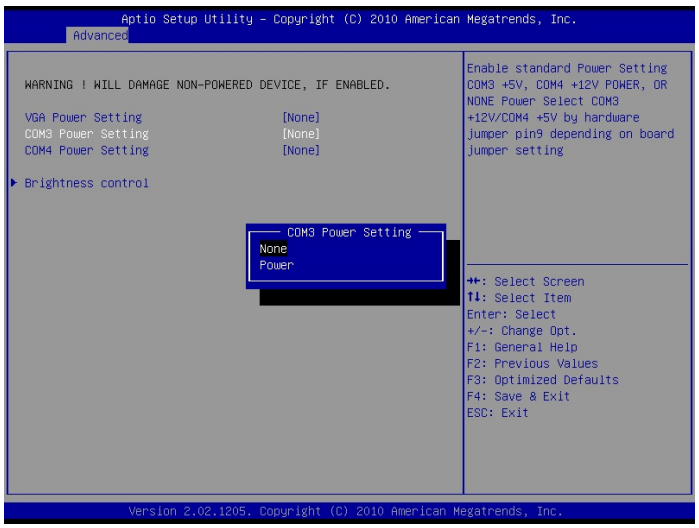
COM3 and COM4 can be set to provide power to your serial device.
The voltage can be set to +5V or 12V by setting jumper JP9 on the motherboard.
When enabled, the power is available on pin 10 of the RJ45 serial connector.
If you use the serial RJ45 to DB9 adapter cable, the power is on pin 9 of the DB9 connector. By default, the power option is **disabled** in the BIOS.

Enable COM3/COM4 power in BIOS

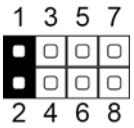
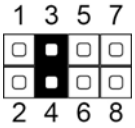
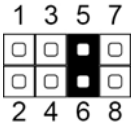
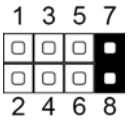
1. Power on the system, and press the <DEL> key when the system is booting up to enter the BIOS Setup utility.
2. Select the Advanced tab.
3. Select **Power Configuration COM/VGA** Ports and press <Enter> to display the available options.



4. To enable the power, select COM3 Power Setting or COM4 Power setting and press <Enter>. Select Power and press <Enter>. Save the change by pressing F10.


Aptio Setup Utility – Copyright (C) 2010 American Megatrends, Inc.
Advanced
WARNING ! WILL DAMAGE NON-POWERED DEVICE, IF ENABLED.
VGA Power Setting [None]
COM3 Power Setting [None]
COM4 Power Setting [None]
Brightness control
COM3 Power Setting
None
Power
Enable standard Power Setting COM3 +5V, COM4 +12V POWER, OR NONE Power Select COM3 +12V/COM4 +5V by hardware jumper pin9 depending on board jumper setting
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC: Exit
Version 2.02.1205. Copyright (C) 2010 American Megatrends, Inc.

COM3~COM4 Power Setting

Function	**JP5** (1-2) (3-4) (5-6) (7-8)
▲COM3 5V	
COM3 12V	
COM4 5V	
▲COM4 12V	

ME update

Function	**JP12** (1-2)
▲Lock	
Un-Lock	

▲ = Manufacturer Default Setting OPEN SHORT

Appendix

Driver Installation:

The shipping package includes a Driver CD. You can find every individual driver and utility that enables you to install the drivers on the Driver CD.
Please insert the Driver CD into the drive and double click on the “index.htm” to select your model. You can refer to the driver installation guide for each driver in the “Driver/Manual List”.